Performance Analysis and Comparison of MPI, OpenMP and Hybrid NPB – MZ

Héctor J. Machín Machín
Texas A&M CS Department
REU Summer 2008
hjmachin@cs.tamu.edu

Weekly Report (July 18 – July 25)

Main Tasks:

- Developed my poster.
- Continue editing my paper.
- Started to collect hpmcount results on:
    1. L1 hit rate.
    2. TLB miss rate.
    3. L2 bandwidth per processor.
    4. Access of L2 per cycle.
- Went to a group meeting with Dr. Taylor Dr. Wu, Sameh, and Tim where we discussed our latest results.
- Manually uploaded the performance results on prophesy and obtained performance models.

Main Goals for future:

- Continue editing my paper.
- Re – run on dedicated nodes on Hydra the processor partitioning scheme.
- Submit jobs for 256 and 512 processors in Hydra.

Need Help:

- I need help for understanding the results I am getting with hpmcount.